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Mechanism of the Acceleration of Film Development for Normal Incidence of an Ultrasonic Wave on the Photosensitive Layer. (E/T) M. E. Arkhangel'skii and I. N. Kanevskii. 15, 155 (1969) [15, 178 (1969)]

Gases, Ultrasonic Velocity, Dispersion, Absorption (see also Radiation and Scattering, Aeroacoustics)

Ultrasonic Interferometer for Measuring the Velocity of Ultrasound in Rarefield Gases up to 20,000 MHz/atm. (E) E. D. Popov and V. F. Yakovlev. 15, 118 (1969) [15, 138 (1969)]

Effect of an Inert Gas Impurity on the Vibrational Relaxation of Cyclohexane Vapor. (E/T) Yu. A. Butylev. 15, 379 (1970) [15, 444 (1969)]

Scattering of Ultrasonic Waves in Heterogeneous Systems. (E/T) I. S. Kol'tsova and I. G. Mikhailov. 15, 390 (1970) [15, 453 (1969)]

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Ultrasonic Interferometer for Measuring the Velocity of Ultrasound in Rarefield Gases up to 20,000 MHz/atm. (E) E. D. Popov and V. F. Yakovlev. 15, 118 (1969) [15, 138 (1969)]

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Pressure Field Produced by the Collapse of a Cavitation Void. (T) Yu. L. Levkovskii. 15, 205 (1969) [15, 239 (1969)]

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Investigation of Sound Absorption and Light Scattering in a Toluene-Ethanol Mixture. (T/E) S. A. Osmanov, V. P. Romanov, and L. I. Savina. 15, 266 (1969) [15, 305 (1969)]

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Linear-Acoustical Method of Determining the Relaxation Time from the Configuration of the Effective Mach Line. (T) R. G. Nemkov. 15, 89 (1969) [15, 112 (1969)]

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On the Relaxation Mechanism in Diethyl Aminoethylmetacrylate. (E/T) L. S. Gerasimova and V. F. Nozdrev. 15, 257 (1969) [15, 298 (1969)]

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Measurement of the Temperature Dependence of the Velocity of Sound in Small Solid Specimens. (E) M. B. Gitis, I. G. Mikhailov, and V. A. Shutilov. 15, 25 (1969) [15, 28 (1969)]

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Effect of Decomposition of the Supersaturated Solid Solution in Magnesium Alloys on the Attenuation and Velocity of Ultrasound. (E) L. L. Zusman and L. L. Rokhlin. 15, 45 (1969) [15, 52 (1969)]

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Acoustoelectric Energy Transformation in Piezodielectric and Piezoelectric Semiconductor Receivers at Resonance. (T) E. K. Grishchenko. 15, 184 (1969) [15, 212 (1969)]

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Allowance for the Influence of the Edges of a Spherical Radiator on the Radiated Field. (T) T. S. Belle. 15, 296 (1970) [15, 335 (1969)]

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Velocity of Sound in a Porous Piezoelectric Ceramic. (E) N. I. Morgacheva and A. P. Nakhodnova. 15, 539 (1970) [15, 622 (1969)]

UNDERWATER SOUND (SEE ALSO ULTRASONICS – LIQUIDS)

Equations for the Statistical Moments of the Field in a Randomly-Inhomogeneous Medium. (T) L. A. Chernov. 15, 511 (1970) [15, 594 (1969)]

Cavitation, Bubbles, Turbulence, Splashing

Gas Bubble in a Small-Amplitude Sound Field (Review). (R) O. A. Kapustina. 15, 427 (1970) [15, 489 (1969)]

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Echo Ranging, Sonar, Propagation and Reverberation, Sound Channels

On the Size Distribution of Gas Bubbles in Water. (T/E) L. R. Gavrilov. 15, 22 (1969) [15, 25 (1969)]

Applicability of the Kirchhoff Principle for Calculation of the Sound Scattering by an Uneven Surface of a Solid. (T) A. D. Lapin. 15, 75 (1969) [15, 92 (1969)]

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Pressure Field Produced by the Collapse of a Cavitation Void. (T) Yu. L. Levkovskii. 15, 205 (1969) [15, 239 (1969)]

Diffraction of a Plane Wave by a Periodic Uneven Interface between Media. (T) E. S. Mashashvili and I. A. Urusovskii. 15, 217 (1969) [15, 253 (1969)]

Variance of the Instantaneous Frequency-Time Cross-Correlation Function of the Transmitted Signal and Sea Reverberation. (T) V. V. Ol'shevskii. 15, 223 (1969) [15, 261 (1969)]
Model Study of a Surface Sound Channel As a Communication Channel. (E) A. N. Barkhatov and I. I. Shmelev. 15, 247 (1969) [15, 290 (1969)]
Sea Reverberation for a Spaced Transmitter and Receiver. (T) N. G. Gatkin, V. A. Geranin, M. I. Karnovskii, L. G. Krasnyi, and V. G. Lozovik, 15, 309 (1970) [15, 351 (1969)]
Mean Coefficient of Reflection from an Uneven Surface Bounding an Inhomogeneous Medium. (T) Yu. P. Lysanov. 15, 340 (1970) [15, 393 (1969)]
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Ice: Under-Ice Acoustics, Icebergs, Ice Covers and Floes

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Amplification of a Nonspecular Reflected Wave. (T) L. M. Lyamshev. 15, 264 (1969) [14, 303 (1969)]
Scattering of Surface Waves Propagating over an Uneven Liquid-Solid Interface. (T) A. D. Lapin. 15, 336 (1970) [15, 387 (1969)]
Sound Generation Mechanisms in the Breaking of Ice Samples in a Liquid. (E) V. V. Bogorodskii, V. P. Gavrilo, V. S. Grigor'ev, and A. V. Gusev. 15, 161 (1969) [15, 184 (1969)]

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